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Affiliation: John M. Kelly
Date: 12-3-56

Field Name: Hobbs , East (San Andres)
Location: T. 18 S., R. 39 E.
County & State: Lea County, New Mexico

DISCOVERY WELL: Aurora Gas Co., Davis #1   COMPLETION DATE: 12-31-51
PAY ZONE: The San Andres is a very porous white dolomite containing some vugular type porosity.

TYPICAL CORE ANALYSIS OF A PAY INTERVAL IN THIS FIELD:

Perm. in millidarcys		% Porosity	Liquid Saturation (% of pore space)	
Horizontal	Vertical		Water	Oil
500	300	25	30	14 Residual

OTHER SHOWS ENCOUNTERED IN THIS FIELD: This structure has one well producing from the Seven-Rivers and one from the Blinebry.

TRAP TYPE: Anticline
NATURE OF OIL: Sour, Gravity 34° A.P.I.
NATURE OF GAS: Sour
NATURE OF PRODUCING ZONE WATER: Resistivity: .12 ohm-meters @ 75 °F.

	Total Solids	Na/K	Ca	Mg	Fe	SO4	Cl	CO2	HCO3	OH	H2S
ppm											

INITIAL FIELD PRESSURE: 1,625 psi. at a depth of 855 feet below sea level.
TYPE OF DRIVE: Water drive
NORMAL COMPLETION PRACTICES: Most wells are completed open hole in the very top of the San Andres and are stimulated with large acid treatments.

PRODUCTION DATA:

Year	Type	Prod.	Shut in or Abnd.	Oil in barrels Gas in MMCF Annual	Cumulative	Year	Type	Prod.	Shut in or Abnd.	Oil in barrels Gas in MMCF Annual	Cumulative
1941	oil					1949	oil				
	gas						gas				
1942	oil					1950	oil				
	gas						gas				
1943	oil					1951	oil	2	0	4,053	4,053
	gas						gas	0	0	2,484	2,484
1944	oil					1952	oil	2	0	32,188	36,241
	gas						gas	0	0	15,731	18,215
1945	oil					1953	oil	13	0	145,255	181,496
	gas						gas	0	0	46,475	64,690
1946	oil					1954	oil	25	0	346,059	527,555
	gas						gas	0	0	127,690	192,380
1947	oil					1955	oil	25	0	307,400	834,955
	gas						gas	0	0	84,880	277,260
1948	oil					1956*	oil	25	0	104,560	939,515
	gas						gas	0	0	26,144	303,404

* 1956 Figure is production to 5-1-56.

Using KB = 3,600 ft:
855 SS = 4,455 ft TVD

1,625psi/4,455ft = 0.36 psi/ft

A SYMPOSIUM OF
OIL & GAS FIELDS
THE ROSWELL GEOLOGICAL SOCIETY
1950
OF
SOUTHEASTERN NEW MEXICO
1956

R 38 E   R 39 E
24   19   20
-900
-875
-850
-825
-800
T 18 S
SEVEN RIVERS DISCOVERY WELL
25   30   29
SAN ANDRES DISCOVERY WELL
TEXAS
36   31   32

TYPE LOG
4200
4300
4400
4500
TOP SAN ANDRES
Pay

HOBBS, EAST FIELD
LEA COUNTY, NEW MEXICO
STRUCTURAL CONTOURS
ON TOP SAN ANDRES
SCALE IN MILES
25   50   75
KDM RFM   NOVEMBER, 1956